APPENDIX A¹

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¹ Due to ASSIA's preliminary election of asserted claims, the following terms are no longer in dispute for purposes of this action only and thus are moot and should not be decided by the Court: (1) "the data further comprises determining a received signal strength indication" ('398 Patent, claim 2); and (2) "WAN rate" ('108 Patent, claims 3, 10, 17).

APPENDIX A-1: AGREED CONSTRUCTIONS

'398 & '313 Patent Claim Language	Plaintiff's Proposed Construction	Defendant's Proposed Construction	Court's Construction
. "processed data" ('398 Patent, claim 1) 1. A method for improving performance of one or more communication units, the method comprising: receiving, by a server, from network monitoring devices that monitor, in real-time, data associated with an operation of two or more communication units located in different geographical areas, the data comprising a parameter; processing, by the server, at least one of the data and historical data; based on the processed data, determining a policy for at least one of the two or more communication units; and in response to the server detecting interference or noise from nearby wireless channels, determining that packets will be lost regardless of rate selection and, otherwise, communicating the policy to at least one or more communication units that implement	AGREED	AGREED	"collective processed data from the plurality of communicatio units" ²

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² The parties understand that the claim recites "two or more communication units" and thus the policy should be generated using data from the two or more communication units. Additionally, the use of "collective" in this construction does not preclude (a) the two or

APPENDIX A-1: AGREED CONSTRUCTIONS

	one or more algorithms that use the parameter and at		
	least a rule or a condition for the one or more		
	communication units to improve a performance of		
	the one or more communication units.		
6	'processed data"		
	(313 Patent, claim 19)		
1	19. A method for managing a plurality of networks, the		
1	method comprising:		
	receiving, by a server, from network monitoring		
	devices that monitor data associated with an		
	operation of two or more communication units		
	located in at least two networks within the plurality		
	of networks, the data comprising a parameter;		
	processing, by the server, the received data;		
	based on the processed data , determining a policy		
	for at least one of the two or more communication		
	units; and		
	umo, and		
	in response to the server detecting a degradation of		
	network performance in at least one network within		
	the plurality of networks, communicating the policy		
	to at least one or more communication units that		

more communication units from sending additional data not used to determine the policy, nor (b) additional communication units from receiving separate policies from the server.

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implement one or more algorithms that use the parameter and at least one rule or one condition for the one or more communication units to improve a performance of the one or more communication units.		

APPENDIX A-1: AGREED CONSTRUCTIONS

2.	"collect LAN performance data from at least one of the computing device and other device" ('654 Patent, claims 4, 21)	AGREED	AGREED	"collect LAN performance data from at least one of the computing device and the
	4. The method of claim 1 wherein the downloadable agent is operable to collect LAN performance data from at least one of the computing device and other device coupled to the LAN.			another device"
	21. The system of claim 18, wherein the downloadable agent is operable to collect LAN performance data from at least one of the computing device and other device coupled to the LAN.			

	2006 Detent Claim Language	Plaintiff's	Defendant's	Court's
	'996 Patent Claim Language	Proposed Construction	Proposed Construction	Construction
3.	"retransmission overhead control signal"	Not indefinite	Indefinite	
	('996 Patent, claim 20)			
	20. A transmission system comprising: a transmission channel to carry data between a transmitter and a receiver/decoder, each communicatively interfaced with the transmission channel;	A signal for controlling one or more parameters that affect retransmission overhead		
	a transmission error value monitor communicatively interfaced with the receiver/decoder to periodically monitor for transmission error values indicative of impulse noise events on the transmission channel, wherein the transmission error values are periodically monitored after training and initialization on the receiver/decoder, the transmission error values being selected from a group comprising: a bit error rate, errored seconds, errored minutes, code violations over a fixed period of time, Signal-to-Noise Ratio (SNR) measured at the receiver/decoder, and Transmission Control Protocol and Internet Protocol (TCP/IP) throughput, and wherein the transmission error value monitor to further generate an input signal based on the transmission error values monitored; and			
	a controller coupled with the transmitter to receive the input signal from the transmission error value monitor and to further generate a retransmission overhead			

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	control signal for the transmitter in response to the input signal.			
4.	"retransmission" ('996 Patent, claim 20) 20. A transmission system comprising:	No construction necessary; plain and ordinary meaning.	Transmission of the same data that was previously transmitted	
	a transmission channel to carry data between a transmitter and a receiver/decoder, each communicatively interfaced with the transmission channel; a transmission error value monitor communicatively interfaced with the receiver/decoder to periodically monitor for transmission error values indicative of impulse noise events on the transmission channel, wherein the transmission error values are periodically monitored after training and initialization on the receiver/decoder, the transmission error values being selected from a group comprising: a bit error rate, errored seconds, errored minutes, code violations over a fixed period of time, Signal-to-Noise Ratio (SNR) measured at the receiver/decoder, and Transmission Control Protocol and Internet Protocol (TCP/IP) throughput, and wherein the transmission error value monitor to further generate an input signal based on the transmission error values monitored; and	This term should not be construed separately from "retransmission overhead control signal."	Alternatively, transmission of at least some of the same data that was previously transmitted	
	a controller coupled with the transmitter to receive the input signal from the transmission error value monitor and to further generate a retransmission overhead			

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	control signal for the transmitter in response to the input signal.			
5.	"periodically monitor" / "periodically monitored" ('996 Patent, claim 20) 20. A transmission system comprising: a transmission channel to carry data between a transmitter and a receiver/decoder, each	"monitor at fixed intervals" / "monitored at fixed intervals"	Plain and ordinary meaning	
	communicatively interfaced with the transmission channel; a transmission error value monitor communicatively interfaced with the receiver/decoder to periodically monitor for transmission error values indicative of			
	impulse noise events on the transmission channel, wherein the transmission error values are periodically monitored after training and initialization on the receiver/decoder, the transmission			
	error values being selected from a group comprising: a bit error rate, errored seconds, errored minutes, code violations over a fixed period of time, Signal-to-Noise Ratio (SNR) measured at the receiver/decoder, and Transmission Control Protocol and Internet Protocol			
	(TCP/IP) throughput, and wherein the transmission error value monitor to further generate an input signal based on the transmission error values monitored; and			
	a controller coupled with the transmitter to receive the input signal from the transmission error value monitor and to further generate a retransmission overhead			

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control signal for the transmitter in response to the input signal.		

U.S.	U.S. Patent No. 11,050,654				
	'654 Patent Claim Language	Plaintiff's Proposed Construction	Defendant's Proposed Construction	Court's Construction	
6.	"on-demand change request" ('654 Patent, claims 1, 18) 1. A method performed by a downloadable agent, the method comprising: collecting WAN performance information, wherein the downloadable agent is executable on a computing device coupled to a LAN of a broadband subscriber, wherein the LAN is coupled by another device to a WAN; transmitting the WAN performance information to a machine, wherein the machine is operable to: store the WAN performance information in a database associated with the machine, analyze the WAN performance information to generate an analysis result, the analysis result comprises at least throughput; and report the analysis result to at least one of the broadband subscriber and the broadband subscriber's service provider; and sending an on-demand change request associated with at least one of throughput, or latency.	Plain and ordinary meaning	"an active step, performed by the downloadable agent, to request change"		

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	18. A system comprising:			
	a database; and			
	a server coupled to the database, the server operable to:			
	receive WAN performance information from a downloadable agent, wherein the downloadable agent is executable on a computing device coupled to a LAN of a broadband subscriber, wherein the LAN is coupled by another device to a WAN; and			
	store the WAN performance information in the database associated with the server,			
	analyze the WAN performance information to generate an analysis result, the analysis result comprises at least throughput; and			
	report the analysis result to at least one of the broadband subscriber and the broadband subscriber's service provider;			
	wherein the server is operable to receive an on-demand change request associated with at least one of: throughput, or latency.			
7.	"WAN performance information" ('654 Patent, claims 1, 3, 8, 16, 18, 20, 33, 36)	Plain and ordinary meaning	"data related to the communication	
	l. A method performed by a downloadable agent, the method comprising:		links within the WAN, which does not include data related to	

transactions at the
application layer
related to client-
server transactions
that are executed"
that are executed

jitter,		
packet loss,		
time,		
type of communication device,		
device network identification,		
manufacturer and model of equipment,		
equipment characteristics,		
firmware,		
user's network usage pattern,		
user's provisioned WAN service,		
RF characteristics including at least one of: signal power,		
frequency bands and mode of operation,		
environment statistics, or		
data on operation of communication devices.		
16. The method of claim 1, wherein the machine is operable		
to collect WAN performance information by polling or by a		
scheduled based system.		
18. A system comprising:		
a database; and		
a server coupled to the database, the server operable to:		
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receive WAN performance information from a		
downloadable agent, wherein the downloadable agent is		
executable on a computing device coupled to a LAN of		
a broadband subscriber, wherein the LAN is coupled by		
another device to a WAN; and		
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store the WAN performance information in the database		
associated with the server,		
abboolated with the berver,		

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analyze the WAN performance information to		
generate an analysis result, the analysis result comprises		
at least throughput; and		
report the analysis result to at least one of the broadband subscriber and the broadband subscriber's service		
provider;		
wherein the server is operable to receive an on-demand		
change request associated with at least one of:		
throughput, or latency.		
uniough, or invalidy.		
20. The system of claim 18, wherein the server is operable		
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to store the WAN performance information with an		
associated timestamp.		
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associated timestamp. 33. The system of claim 18, wherein the WAN performance information includes at least one of:		
associated timestamp. 33. The system of claim 18, wherein the WAN performance information includes at least one of: topological information,		
associated timestamp. 33. The system of claim 18, wherein the WAN performance information includes at least one of: topological information, geographical information,		
associated timestamp. 33. The system of claim 18, wherein the WAN performance information includes at least one of: topological information, geographical information, time,		
associated timestamp. 33. The system of claim 18, wherein the WAN performance information includes at least one of: topological information, geographical information, time, latency,		
associated timestamp. 33. The system of claim 18, wherein the WAN performance information includes at least one of: topological information, geographical information, time, latency, jitter,		
associated timestamp. 33. The system of claim 18, wherein the WAN performance information includes at least one of: topological information, geographical information, time, latency,		
associated timestamp. 33. The system of claim 18, wherein the WAN performance information includes at least one of: topological information, geographical information, time, latency, jitter, packet loss,		
associated timestamp. 33. The system of claim 18, wherein the WAN performance information includes at least one of: topological information, geographical information, time, latency, jitter, packet loss, type of communication device,		
associated timestamp. 33. The system of claim 18, wherein the WAN performance information includes at least one of: topological information, geographical information, time, latency, jitter, packet loss, type of communication device, device network identification,		
associated timestamp. 33. The system of claim 18, wherein the WAN performance information includes at least one of: topological information, geographical information, time, latency, jitter, packet loss, type of communication device, device network identification, manufacturer and model of equipment,		

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	RF characteristics including at least one of: signal power, frequency bands and mode of operation, environment statistics, or data on operation of communication devices. 36. The system of claim 18, wherein the server is operable to collect WAN performance information by polling or by a scheduled based system.			
8.	"collect LAN performance data from at least one of the computing device and other device" ('654 Patent, claims 4, 21) 4. The method of claim 1 wherein the downloadable agent is operable to collect LAN performance data from at least one of the computing device and other device coupled to the LAN.	AGREED	AGREED	"collect LAN performance data from at least one of the computing device and the another device."
	21. The system of claim 18, wherein the downloadable agent is operable to collect LAN performance data from at least one of the computing device and other device coupled to the LAN.			

U.S. Patent No. 11,477,108			
'108 Patent Claim Language	Plaintiff's Proposed Construction	Defendant's Proposed Construction	Court's Construction
9. "identifying[, at the management device,] one or more operational conditions within the WAN in a different communication layer from the one or more communication layers on the LAN" ('108 patent, Claims 1, 8, 15) 1. A management device, comprising: a Local Area Network (LAN) interface to communicably interface the management device with a LAN; a Wide Area Network (WAN) interface to communicably interface the management device with a WAN, wherein the WAN is to provide broadband connectivity to the LAN; one or more processors; and a non-transitory computer-readable medium or media storing one or more sequences of instructions which, when executed by at least one of the one or more processors, cause the management device to perform operations comprising: collecting LAN information from one or more communication layers on the LAN; and	Plain and ordinary meaning	"identifying [at the management device,] one or more operational conditions within the WAN that is not in any of the same layers from which LAN information was collected to make that identification"	

APPENDIX A-4: '108 PATENT DISPUTED TERMS

identifying one or more operational conditions within the WAN in a different communication layer from the one or more communication layers on the LAN by analyzing at least the collected LAN information.		
8. A method for communication management comprising:		
communicably interfacing, via a Local Area Network (LAN) interface, a management device with a LAN;		
communicably interfacing, via a Wide Area Network (WAN) interface, the management device with a WAN, wherein the WAN is to provide broadband connectivity to the LAN;		
collecting, at the management device, LAN information from one or more communication layers on the LAN; and		
identifying, at the management device, one or more operational conditions within the WAN in a different communication layer from the one or more communication layers on the LAN by analyzing at least the collected LAN information.		
15. A non-transitory computer-readable medium or media comprising one or more sequences of instructions which, when executed by at least one		

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processor, causes steps for communication management comprising:	
communicably interfacing, via a Local Area Network (LAN) interface, a management device with a LAN;	
communicably interfacing, via a Wide Area Network (WAN) interface, the management device with a WAN, wherein the WAN is to provide broadband connectivity to the LAN;	
collecting, at the management device, LAN information from one or more communication layers on the LAN; and	
identifying, at the management device, one or more operational conditions within the WAN in a different communication layer from the one or more communication layers on the LAN by analyzing at least the collected LAN information.	